

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 6, line 10 with:

The amino acid sequences of the mutant NAGS suitable for fbr phenotype of NAGS were defined by the present invention. Therefore, the mutant NAGS can be obtained based on the sequences by introducing mutations into a wild type *argA* using ordinary methods. As a wild type *argA* gene, the *argA* gene of *E. coli* can be mentioned (GenBank Accession Y00492; the DNA sequence appears as SEQ ID NO: 15 and the corresponding protein sequence appears as SEQ ID NO:16).

Please replace the paragraph beginning at page 14, line 6 with:

The *Bam*HI-*Sal*I chromosomal DNA fragment (2.02 kb) with *wt argA* gene (SEQ ID: 15) was cloned into plasmid pUC19 (plasmid pUC19-ArgA). ~~Pyrobest™~~ PYROBEST™ DNA polymerase used for PCR amplification was obtained from Takara Shuzo Co. (Japan) and is used under the conditions recommended by the supplier.

Please replace Table 2 appearing on page 19 with:

Clone with Recombinant	Sequence of altered fragment of mutant <i>argA</i> gene	Altered sequence of NAGS (fragment of proteins from 15-th to 19-th a.a.)	NAGS activity, nmol/min x mg*	NAGS activity in the presence of L-Arg (10 mM), %**
PKKArgA-r11	GTAGTATGGCGGGCA (SEQ ID NO: 7)	ValValTrpArgAla ValValTrpArgAla (SEQ ID NO: 1)	3390	103%
PKKArgA-r12	TTGTTTCGGATTGCAC (SEQ ID NO: 8)	LeuPheGlyLeuHis (SEQ ID NO: 2)	1220	100%
PKKArgA-r13	TCGCGGCGGTCCAGA (SEQ ID NO: 9)	SerArgArgSerArg (SEQ ID NO: 3)	3120	107%
PKKArgA-32-34,36,38,39	GGGTGGCCATGCGTG (SEQ ID NO: 10)	GlyTrpProCysVal (SEQ ID NO: 4)	10.3	103%
PKKArgA-r4	CATTCGGTTCCTGT (SEQ ID NO: 11)	HisSerValProCys (SEQ ID NO: 5)	300	91%
PKKArgA-wt	CATTCGGTTCCTAT (SEQ ID NO: 12)	HisSerValProTyr (SEQ ID NO: 6)	1200	<10%

Please delete the substitute Sequence Listing filed on October 9, 2001.

Page 27 (Abstract), after the last line, beginning on a new page, please insert the attached substitute Sequence Listing.